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(71) Applicant (for all designated States except US):
AMULET PHARMACEUTICALS, INC. [US/US];
1450 South Rolling Road, Baltimore, MD 21227 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ARNOLD, Ernst, V.**
[US/US]; 436 Liberty Street, Hagerstown, MD 21740 (US).
DOLETSKI, Blaine, G. [US/US]; 7134 Ducketts Lane,
Elkridge, MD 21075 (US). **RAULLI, Robert, E.**; 10443
Moore Drive, Manassas, VA 20111 (US).

(74) Agents: **GOTTS, Lawrence, J.** et al.; Shaw Pittman LLP,
1650 Tysons Boulevard, McLean, VA 22102-4859 (US).

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(54) Title: NITRIC OXIDE-RELEASING POLYMERS

(57) Abstract: This invention relates to compositions comprising carbon-based diazeniumdiolates attached to hydrophobic polymers that releases nitric oxide (NO). The carbon-based diazeniumdiolated polymers release NO spontaneously under physiological conditions without subsequent nitrosamine formation. The present invention also relates to methods of preparing the carbon-based diazeniumdiolated polymers, compositions comprising such polymers, methods of using such compositions, and devices employing such polymer compositions.



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